RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _09/786,635C_

Source: _1FWJ6_

Date Processed by STIC: _1/10/05_

ENTERED

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RAW SEQUENCE LISTING              DATE: 01/10/2005
PATENT APPLICATION: US/09/786,635C    TIME: 16:38:15

Input Set : N:\Rasheed\PTO.AR.txt
Output Set: N:\CRF4\01102005\I786635C.raw
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 3 <110> APPLICANT: Bayer AG
 5 <120> TITLE OF INVENTION: ATP binding cassette genes and proteins for diagnosis and
treatment of
 6       lipid disorders and inflammatory diseases
 8 <130> FILE REFERENCE: Lea 33298
10 <140> CURRENT APPLICATION NUMBER: US/09/786,635C
11 <141> CURRENT FILING DATE: 2001-05-22
13 <150> PRIOR APPLICATION NUMBER: 101706
14 <151> PRIOR FILING DATE: 1998-09-25
16 <160> NUMBER OF SEQ ID NOS: 54
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 6880
22 <212> TYPE: DNA
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32 tgtttccgtt acccgactcc tggggaggct cccggagttg ttggaaactt taacaaatcc     240
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40 aacctctctc tcccaaagtc tactgtggac aagatgctga gggctgatgt cattctccac     480
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46 aaactggctg cagcagagcg agtacttcgt tccaacatgg acatcctgaa gccaatcctg     660
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280 Met Arg Lys Val Leu Arg Thr Leu Gln Gln Ile Lys Lys Ser Ser Ser
281 65              70              75              80
284 Asn Leu Lys Leu Gln Asp Phe Leu Val Asp Asn Glu Thr Phe Ser Gly
285             85              90              95
288 Phe Leu Tyr His Asn Leu Ser Leu Pro Lys Ser Thr Val Asp Lys Met
289         100             105             110
292 Leu Arg Ala Asp Val Ile Leu His Lys Val Phe Leu Gln Gly Tyr Gln
293         115             120             125
296 Leu His Leu Thr Ser Leu Cys Asn Gly Ser Lys Ser Glu Glu Met Ile
297     130             135             140
300 Gln Leu Gly Asp Gln Glu Val Ser Glu Leu Cys Gly Leu Pro Arg Glu
301 145             150             155             160
304 Lys Leu Ala Ala Ala Glu Arg Val Leu Arg Ser Asn Met Asp Ile Leu
305             165             170             175
308 Lys Pro Ile Leu Arg Thr Leu Asn Ser Thr Ser Pro Phe Pro Ser Lys
309             180             185             190
312 Glu Leu Ala Glu Ala Thr Lys Thr Leu Leu His Ser Leu Gly Thr Leu
313         195             200             205
316 Ala Gln Glu Leu Phe Ser Met Arg Ser Trp Ser Asp Met Arg Gln Glu
317     210             215             220
320 Val Met Phe Leu Thr Asn Val Asn Ser Ser Ser Ser Ser Thr Gln Ile
321 225             230             235             240
324 Tyr Gln Ala Val Ser Arg Ile Val Cys Gly His Pro Glu Gly Gly Gly
325             245             250             255
328 Leu Lys Ile Lys Ser Leu Asn Trp Tyr Glu Asp Asn Asn Tyr Lys Ala
329             260             265             270
332 Leu Phe Gly Gly Asn Gly Thr Glu Glu Asp Ala Glu Thr Phe Tyr Asp
333         275             280             285
336 Asn Ser Thr Thr Pro Tyr Cys Asn Asp Leu Met Lys Asn Leu Glu Ser
337     290             295             300
340 Ser Pro Leu Ser Arg Ile Ile Trp Lys Ala Leu Lys Pro Leu Leu Val
341 305             310             315             320
344 Gly Lys Ile Leu Tyr Thr Pro Asp Thr Pro Ala Thr Arg Gln Val Met
345             325             330             335
348 Ala Glu Val Asn Lys Thr Phe Gln Glu Leu Ala Val Phe His Asp Leu
349             340             345             350
352 Glu Gly Met Trp Glu Glu Leu Ser Pro Lys Ile Trp Thr Phe Met Glu
353         355             360             365
356 Asn Ser Gln Glu Met Asp Leu Val Arg Met Leu Leu Asp Ser Arg Asp
357     370             375             380
360 Asn Asp His Phe Trp Glu Gln Gln Leu Asp Gly Leu Asp Trp Thr Ala
361 385             390             395             400
364 Gln Asp Ile Val Ala Phe Leu Ala Lys His Pro Glu Asp Val Gln Ser
365             405             410             415
368 Ser Asn Gly Ser Val Tyr Thr Trp Arg Glu Ala Phe Asn Glu Thr Asn
369             420             425             430
372 Gln Ala Ile Arg Thr Ile Ser Arg Phe Met Glu Cys Val Asn Leu Asn
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380 Glu Leu Leu Asp Glu Arg Lys Phe Trp Ala Gly Ile Val Phe Thr Gly
381 465                   470                   475                   480
384 Ile Thr Pro Gly Ser Ile Glu Leu Pro His His Val Lys Tyr Lys Ile
385                   485                   490                   495
388 Arg Met Asp Ile Asp Asn Val Glu Arg Thr Asn Lys Ile Lys Asp Gly
389             500                   505                   510
392 Tyr Trp Asp Pro Gly Pro Arg Ala Asp Pro Phe Glu Asp Met Arg Tyr
393         515                   520                   525
396 Val Trp Gly Gly Phe Ala Tyr Leu Gln Asp Val Val Glu Gln Ala Ile
397     530                   535                   540
400 Ile Arg Val Leu Thr Gly Thr Glu Lys Lys Thr Gly Val Tyr Met Gln
401 545                   550                   555                   560
404 Gln Met Pro Tyr Pro Cys Tyr Val Asp Asp Ile Phe Leu Arg Val Met
405                   565                   570                   575
408 Ser Arg Ser Met Pro Leu Phe Met Thr Leu Ala Trp Ile Tyr Ser Val
409             580                   585                   590
412 Ala Val Ile Ile Lys Gly Ile Val Tyr Glu Lys Glu Ala Arg Leu Lys
413         595                   600                   605
416 Glu Thr Met Arg Ile Met Gly Leu Asp Asn Ser Ile Leu Trp Phe Ser
417     610                   615                   620
420 Trp Phe Ile Ser Ser Leu Ile Pro Leu Leu Val Ser Ala Gly Leu Leu
421 625                   630                   635                   640
424 Val Val Ile Leu Lys Leu Gly Asn Leu Leu Pro Tyr Ser Asp Pro Ser
425             645                   650                   655
428 Val Val Phe Val Phe Leu Ser Val Phe Ala Val Val Thr Ile Leu Gln
429         660                   665                   670
432 Cys Phe Leu Ile Ser Thr Leu Phe Ser Arg Ala Asn Leu Ala Ala Ala
433     675                   680                   685
436 Cys Gly Gly Ile Ile Tyr Phe Thr Leu Tyr Leu Pro Tyr Val Leu Cys
437     690                   695                   700
440 Val Ala Trp Gln Asp Tyr Val Gly Phe Thr Leu Lys Ile Phe Ala Ser
441 705                   710                   715                   720
444 Leu Leu Ser Pro Val Ala Phe Gly Phe Gly Cys Glu Tyr Phe Ala Leu
445             725                   730                   735
448 Phe Glu Glu Gln Gly Ile Gly Val Gln Trp Asp Asn Leu Phe Glu Ser
449             740                   745                   750
452 Pro Val Glu Glu Asp Gly Phe Asn Leu Thr Thr Ser Val Ser Met Met
453         755                   760                   765
456 Leu Phe Asp Thr Phe Leu Tyr Gly Val Met Thr Trp Tyr Ile Glu Ala
457     770                   775                   780
460 Val Phe Pro Gly Gln Tyr Gly Ile Pro Arg Pro Trp Tyr Phe Pro Cys
461 785                   790                   795                   800
464 Thr Lys Ser Tyr Trp Phe Gly Glu Glu Ser Asp Glu Lys Ser His Pro
465                   805                   810                   815
468 Gly Ser Asn Gln Lys Arg Ile Ser Glu Ile Cys Met Glu Glu Glu Pro
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<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:13; N Pos. 4721,4752,4754,4772,4773
Seq#:20; N Pos. 5,2909
Seq#:25; N Pos. 1963
Seq#:31; N Pos. 856,1009,1128,1314,1326,1328,1343,1345,1346,1378,1415,2477
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VERIFICATION SUMMARY   DATE: 01/10/2005
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M:341 Repeated in SeqNo=3
L:989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:900
M:341 Repeated in SeqNo=4
L:2104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:4200
M:341 Repeated in SeqNo=13
L:2769 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
M:341 Repeated in SeqNo=20
L:3002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:1920
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